

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209351

Luminaire Tested: UPW-SA2-110-750-U-T2R

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-110-750-U-T2R  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15378 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

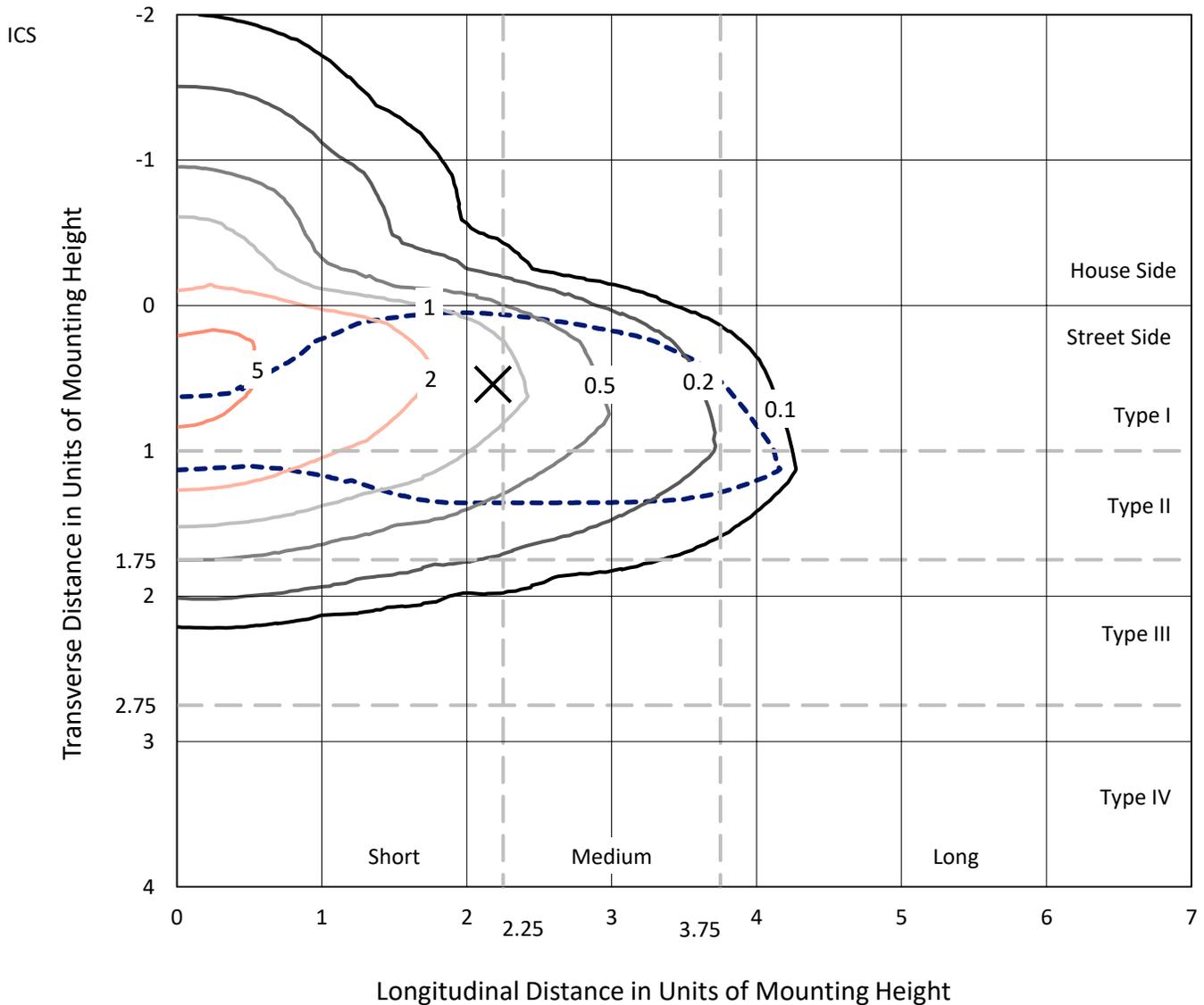
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

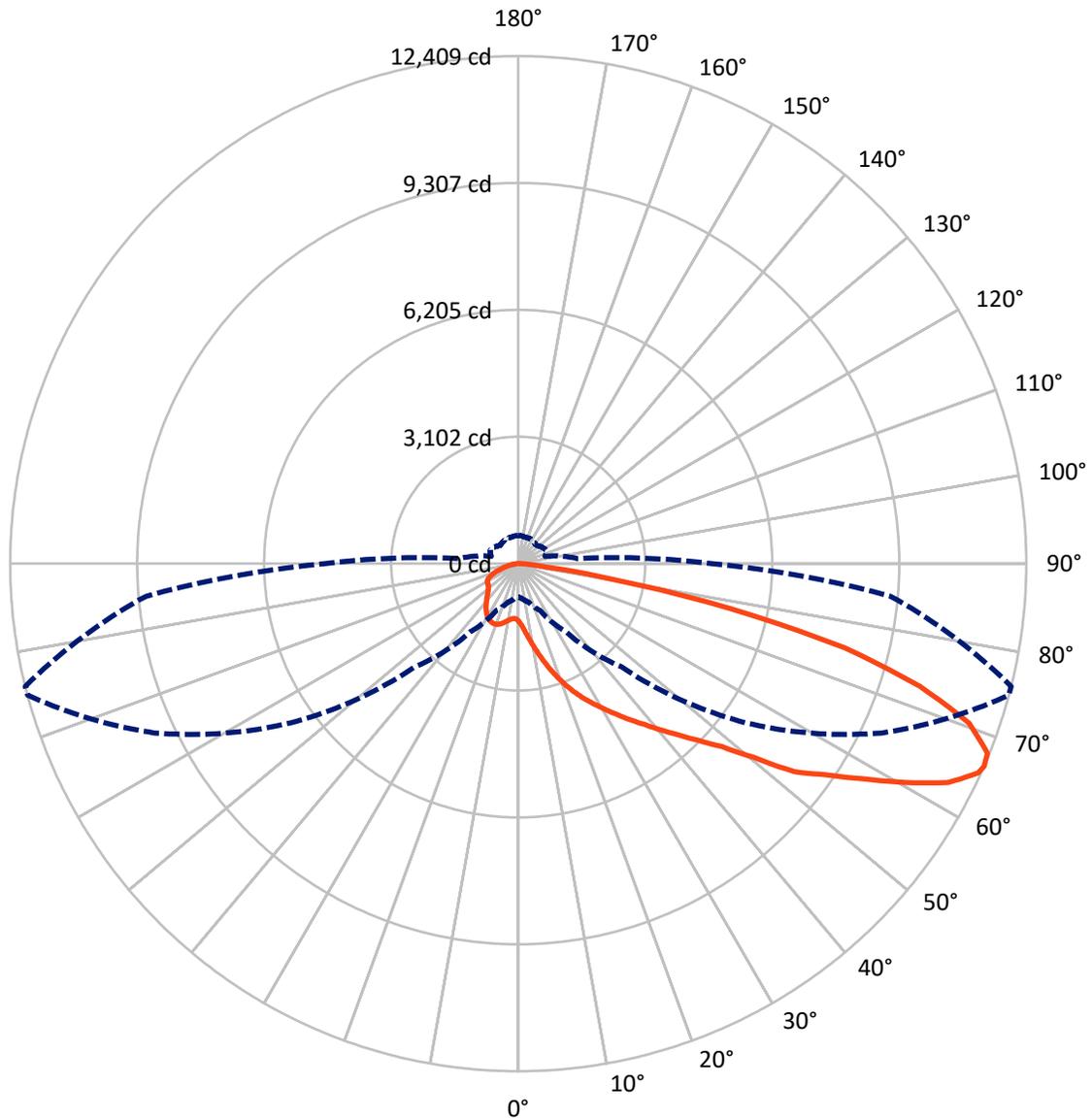
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2587.6	0.0	2587.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	12790.4	0.0	12790.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	15378.0	0.0	15378.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.8	1.1
10°-20°	670.6	4.4
20°-30°	1303.2	8.5
30°-40°	2127.1	13.8
40°-50°	2906.1	18.9
50°-60°	3385.1	22.0
60°-70°	3034.8	19.7
70°-80°	1533.6	10.0
80°-90°	247.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15378.0	100.0
0°-180°	15378.0	100.0



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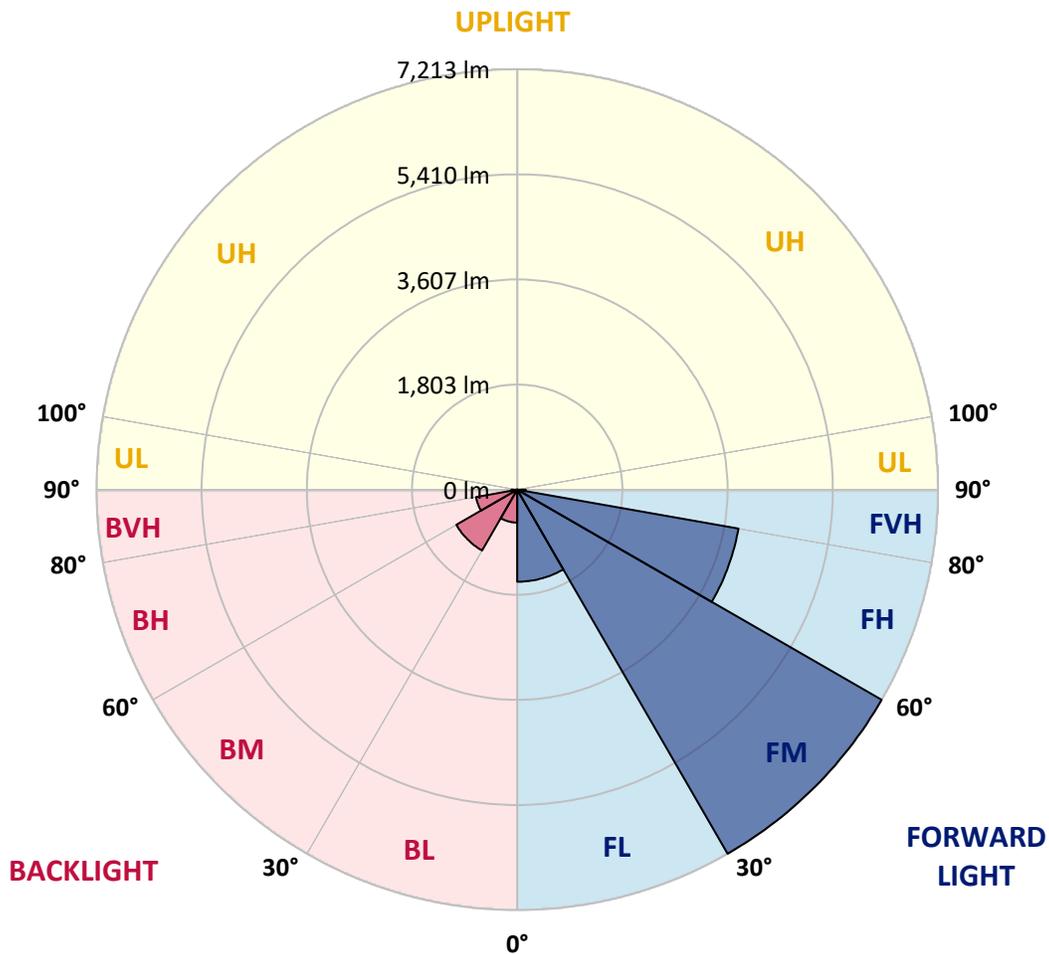
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.3	10.3			
FM (30°-60°)	7213.3	46.9			
FH (60°-80°)	3851.5	25.0			G2/5000
FVH (80°-90°)	146.3	1.0			G2/225
BL (0°-30°)	564.4	3.7	B2/1000		
BM (30°-60°)	1204.9	7.8	B2/2500		
BH (60°-80°)	716.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	101.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4
2.5°	1864.3	1836.1	1833.5	1792.3	1782.9	1704.0	1646.1	1585.5	1516.6	1503.0	1448.7
5°	2394.7	2392.1	2356.1	2288.7	2236.0	2101.3	1968.2	1827.2	1672.7	1647.6	1525.5
7.5°	2871.9	2867.7	2840.0	2767.5	2691.3	2525.8	2335.7	2119.6	1869.0	1831.9	1629.4
10°	3234.2	3232.6	3223.2	3170.0	3105.3	2946.5	2736.7	2441.7	2097.1	2046.5	1759.4
12.5°	3514.0	3517.2	3523.4	3504.6	3473.8	3338.6	3123.5	2783.1	2340.4	2290.3	1904.0
15°	3703.5	3712.9	3745.3	3771.9	3788.1	3705.1	3496.8	3132.4	2612.9	2552.9	2064.2
17.5°	3799.1	3809.5	3865.4	3945.8	4019.9	4011.6	3846.1	3465.5	2874.5	2816.5	2236.5
20°	3881.6	3889.4	3952.0	4048.6	4179.7	4237.6	4144.7	3786.0	3161.1	3092.2	2419.3
22.5°	4120.7	4130.6	4149.4	4204.2	4320.1	4426.6	4381.7	4089.3	3423.7	3359.5	2592.6
25°	4582.2	4594.2	4553.5	4507.0	4528.9	4603.1	4611.4	4366.0	3690.0	3617.4	2779.0
27.5°	5138.2	5155.4	5086.0	4966.4	4862.0	4833.3	4823.4	4592.6	3944.2	3860.2	2963.2
30°	5682.7	5712.4	5622.1	5467.1	5275.5	5140.8	5041.1	4814.5	4194.8	4114.4	3137.1
32.5°	6214.7	6202.7	6071.6	5920.2	5695.7	5527.1	5285.9	5052.6	4476.7	4384.3	3309.9
35°	6579.1	6583.3	6461.6	6282.0	6068.0	5938.5	5613.8	5309.4	4764.4	4679.3	3506.2
37.5°	6889.2	6869.9	6732.0	6564.5	6380.2	6324.8	5997.5	5592.4	5076.1	4983.1	3715.0
40°	6992.6	6970.1	6879.8	6759.2	6611.4	6606.7	6420.9	5912.9	5428.4	5336.6	3950.5
42.5°	6929.9	6901.2	6864.1	6831.2	6785.8	6806.7	6818.7	6288.8	5815.8	5713.0	4223.0
45°	6698.6	6655.3	6681.4	6752.9	6851.6	6969.6	7177.9	6704.9	6249.7	6163.5	4543.0
47.5°	6343.1	6304.0	6385.4	6538.4	6806.7	7105.3	7517.8	7164.3	6767.5	6681.9	4998.8
50°	5843.0	5854.5	5970.9	6249.1	6654.8	7168.0	7936.5	7772.5	7520.4	7440.5	5620.6
52.5°	5022.3	5024.4	5352.2	5809.0	6385.4	7135.6	8168.8	8549.9	8548.3	8451.7	6212.6
55°	4260.1	4306.5	4566.0	5173.2	5948.9	7006.1	8331.1	8927.9	9223.3	9110.1	6764.4
57.5°	3515.6	3542.7	3788.6	4398.4	5326.1	6661.0	8497.7	9381.5	10001.2	9929.7	7450.4
60°	2668.8	2710.6	2964.8	3528.1	4529.4	6048.7	8513.3	9855.0	10931.0	10859.0	8216.3
62.5°	1732.2	1804.3	2042.3	2570.1	3565.7	5167.9	8150.0	10164.6	11812.3	11786.7	8896.0
65°	995.6	1049.9	1215.4	1622.6	2460.0	4062.2	7286.0	10045.6	12354.7	12340.1	9150.3
66°	813.4	847.3	974.2	1268.1	2029.8	3567.3	6783.7	9794.5	12408.5	12409.0	9121.0
67.5°	650.5	665.6	722.5	907.9	1497.8	2827.5	5886.3	9240.6	12341.6	12359.9	8932.6
70°	538.3	546.1	563.8	608.7	817.6	1705.1	4178.1	7801.2	11670.8	11684.9	8197.0
72.5°	482.9	487.6	494.4	500.7	576.9	952.8	2551.9	6240.8	10232.5	10250.8	7076.1
75°	437.5	440.1	439.1	439.6	484.0	607.2	1318.7	4659.4	8273.7	8237.2	5420.6
77.5°	384.2	386.9	381.6	382.7	428.1	466.7	656.2	3261.9	5583.5	5325.6	3054.1
80°	324.7	326.8	324.7	328.4	372.8	352.4	381.6	1835.1	2468.9	2335.2	1085.9
82.5°	245.4	254.2	260.5	275.1	307.0	250.6	255.3	714.7	751.8	715.8	333.1
85°	107.5	131.0	196.3	210.4	230.8	150.4	167.6	291.3	305.9	296.5	121.1
87.5°	28.2	30.8	97.1	122.2	127.9	67.9	87.2	132.6	139.9	132.6	40.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4
2.5°	1420.0	1394.4	1348.5	1307.8	1277.0	1256.1	1235.2	1224.8	1218.5	1212.2	1213.3
5°	1465.4	1413.8	1334.9	1279.1	1247.7	1227.9	1217.5	1213.3	1210.7	1204.4	1204.4
7.5°	1533.8	1460.7	1352.2	1294.7	1270.2	1255.0	1248.8	1246.7	1243.6	1236.3	1237.3
10°	1620.0	1517.6	1388.2	1332.3	1309.9	1293.2	1284.3	1281.2	1275.4	1267.1	1268.1
12.5°	1721.3	1588.1	1435.7	1377.2	1350.1	1327.6	1313.0	1304.1	1294.2	1283.2	1283.8
15°	1831.9	1664.9	1486.8	1417.4	1380.3	1349.0	1325.5	1310.4	1294.7	1281.2	1280.6
17.5°	1944.2	1739.0	1526.0	1439.3	1389.2	1348.0	1316.1	1292.6	1273.3	1256.6	1255.0
20°	2065.3	1805.8	1547.9	1437.2	1372.5	1323.4	1281.2	1251.9	1230.5	1213.8	1211.2
22.5°	2188.5	1868.5	1551.6	1415.8	1335.4	1275.4	1231.0	1198.7	1176.7	1159.5	1153.2
25°	2301.3	1917.0	1536.4	1374.6	1283.8	1219.0	1175.7	1142.8	1125.1	1104.7	1098.4
27.5°	2404.1	1951.0	1506.2	1321.9	1225.8	1162.1	1121.4	1093.2	1073.9	1058.2	1053.0
30°	2496.5	1969.2	1456.6	1259.2	1166.3	1108.3	1073.9	1054.6	1037.9	1018.0	1014.4
32.5°	2584.2	1969.2	1392.9	1190.8	1107.3	1060.8	1040.5	1028.5	1009.7	990.4	985.1
35°	2671.9	1957.2	1317.7	1119.3	1053.0	1026.9	1025.9	1011.8	983.1	956.9	950.2
37.5°	2764.3	1932.7	1233.1	1052.5	1008.6	1011.8	1020.6	989.3	948.6	911.5	901.6
40°	2868.8	1898.8	1145.4	994.5	971.6	1005.0	1006.5	956.9	877.6	843.7	834.8
42.5°	2991.4	1864.8	1064.0	943.4	942.3	984.6	979.9	887.0	839.5	822.3	817.6
45°	3152.8	1845.5	986.7	894.8	919.4	951.7	934.5	848.4	828.5	818.6	814.4
47.5°	3407.0	1855.4	915.7	856.2	896.4	918.8	849.9	832.7	818.6	806.6	802.4
50°	3725.5	1849.7	858.3	829.6	870.3	884.4	811.8	812.3	805.0	791.5	785.2
52.5°	3965.1	1804.8	821.2	814.4	847.3	823.3	787.8	792.5	788.8	769.0	762.2
55°	4196.4	1766.2	802.4	808.7	830.6	747.1	759.6	771.1	767.4	748.1	745.0
57.5°	4484.0	1758.8	790.9	810.2	816.5	709.0	732.5	747.6	745.0	736.6	735.1
60°	4836.4	1760.9	780.5	812.9	800.8	680.8	706.9	726.2	727.8	726.2	725.2
62.5°	5030.1	1704.0	754.4	805.5	773.2	656.2	680.3	708.4	709.0	712.1	711.6
65°	4865.7	1533.8	705.8	780.0	726.7	635.9	657.3	688.1	680.3	694.3	694.3
66°	4705.9	1435.7	681.8	763.3	706.9	628.0	650.0	677.6	667.7	687.0	687.0
67.5°	4379.6	1270.2	638.5	727.8	678.7	617.1	641.6	660.4	646.8	675.6	673.5
70°	3783.4	982.5	551.3	647.4	632.2	600.9	630.1	626.0	606.1	650.0	641.6
72.5°	3189.8	746.6	442.7	541.9	561.7	580.5	613.9	582.1	557.0	587.8	569.6
75°	2475.1	561.2	349.8	421.3	474.6	548.7	594.6	531.5	495.4	492.3	482.4
77.5°	1338.1	385.3	277.2	321.6	376.9	509.0	581.6	477.2	422.9	410.3	402.5
80°	529.9	250.6	201.5	243.8	263.6	451.6	550.3	414.0	348.7	336.2	324.2
82.5°	218.7	148.3	130.0	163.4	171.8	386.3	493.9	339.3	269.4	372.8	395.7
85°	94.0	81.4	77.3	84.6	97.1	271.0	393.1	258.9	290.8	259.5	206.2
87.5°	28.2	34.5	32.9	32.4	35.5	64.7	209.3	144.1	213.5	80.9	60.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)